

Claims page:

What I claim as my invention is:

- I. The use of a diaphragm or diaphragms attached to the inside tire surface and connected to the atmosphere through a hole or holes in the tire and incorporating valves in the diaphragm(s) to allow air to transfer from the atmosphere into the diaphragm(s)/tire enclosed compartment and pressurized air to be transferred from that compartment into the main inflation chamber of the tire as the tire rotates off and on the tread surface area under the diaphragm(s). This claim is for diaphragm(s) whether they are mounted on the radial surface or the sidewall surface and whether they connect to the atmosphere with or without a breathing tube.
- II. The use a bladder or bladders attached to the inside tire surface and connected to the atmosphere through a hole in the tire and incorporating valves to allow air to transfer from the atmosphere into the bladder(s) and pressurized air to be transferred from the bladder(s) into the main inflation chamber of the tire as the tire rotates off and on the tread surface. The claim is for bladder(s) whether they are mounted on the radial surface or the sidewall of the tire and whether it(they) connect to the atmosphere with or without a breathing tube.
- III. A pressure relieving inflation valve which utilizes two springs, two moveable valves which move together to provide pressure relief from the tire and move relative to each other to allow inflation from an external source along with a

threaded adjustment to permit setting the force on one of the springs which, in turn, allows the desired inflation pressure (over pressure relief) for the tire to be set.